

THE GENUS HELIANTHELLA IN OREGON

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Dr. Morton E. Peck's Manual of the Higher Plants of Oregon (1941) listed *Helianthella Douglasii* T. & G. as the sole species then known to occur in that state. The present paper brings to the attention of students of the Oregon flora three previously unreported species in this genus of Compositae and presents a simple key to all the species now recorded from Oregon.

The collections upon which these new records are based are not recent ones; on the contrary, they were made about fifty years ago and are probably widely distributed in herbaria, but for want of critical examination these have passed for individuals of the common *H. Douglasii*.

An annotated list of the Oregon species of *Helianthella* follows. All specimens cited are from the herbarium of the United States National Museum.

HELIANTHELLA CALIFORNICA A. Gray var. *NEVADENSIS* (Greene) Jepson, Man. Fl. Pl. Calif. 1081. 1925. *H. nevadensis* Greene in Bull. Calif. Acad. Sci. 1: 89. 1885. Dry yellow pine woods, east side of Johnson Prairie, Klamath County, Oregon, 1300 m. alt., June 13, 1898, *E. I. Applegate 2439*. Grassy slopes, head of Elk Creek, Umpqua divide, Douglas County, Oregon, 1500 m. alt., July 2, 1899, *J. B. Leiberger 4191*.

HELIANTHELLA QUINQUENERVIS (Hook.) A. Gray in Proc. Amer. Acad. 19: 10. 1883. *Helianthus quinquenervis* Hook. in Lond. Jour. Bot. 6: 247. 1847. Warner Range, Lake County, Oregon, 1650 m. alt., July 26, 1896, *F. V. Coville & J. B. Leiberger 52*. The westernmost station previously recorded for this essentially Rocky Mountain species was in Elko County, Nevada.

HELIANTHELLA UNIFLORA (Nutt.) T. & G., Fl. N. Am. 2: 334. 1842. *Helianthus uniflorus* Nutt. in Jour. Acad. Sci. Phila. 7: 37. 1834. White Horse Mts., south of old Fort Smith, Harney County, southeastern Oregon, Aug., 1901, *David Griffiths & E. L. Morris 450*.

HELIANTHELLA UNIFLORA (Nutt.) T. & G. var. *Douglasii* (T. & G.) comb. nov. *Helianthella Douglasii* T. & G., Fl. N. Am. 2: 334. 1842. The common *Helianthella* in central and northeastern Oregon from the Ochoco Mountains to the Wallowa Mountains and northward into Washington, northern Idaho, Montana, and British Columbia appears to be a weakly differentiated northward extension of *H. uniflora* of the Rocky Mountains and Great Basin ranges. Its larger flower heads, ciliate rather than uniformly cinereous-pubescent phyllaries, and its occurrence at lower altitudes separate the present race from *H. uniflora* proper. Although most specimens may be placed without much difficulty

in either of these two racial categories, transitional intermediates do occur.

KEY TO THE OREGON SPECIES OF HELIANTHELLA

- Cauline leaves alternate, except the lowermost pair. Leaves chiefly basal, at the summit of a slender caudex..... *H. californica*
var. *nevadensis*
- Cauline leaves opposite. Leaves chiefly cauline. Caudex stout.
- Cauline leaves attenuate at both ends, long petiolate. Phyllaries ovate, conspicuously ciliate, blackish on drying *H. quinquenervis*
- Cauline leaves merely acute, short-petiolate or sessile. Phyllaries lanceolate, variously pubescent, drying green.
- Heads large, 2.0-2.5 cm. broad excluding the rays. Phyllaries ciliate..... *H. uniflora*
var. *Douglasii*
- Heads small, 1.5-2.0 cm. broad excluding the rays. Phyllaries uniformly cinereous-pubescent..... *H. uniflora*

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A NEW POLEMONIUM FROM MEXICO

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Polemonium glabrum sp. nov. Erecta, humilis, 2-3 dm. alta; rachis foliis angustate-alatis; foliolis 6-8-junctis, glabris vel ciliatis; calycis glabris, angustate-campanulatis, 10 mm. longis, segmentis angustatis acutis, tubis æqualibus; corollis cæruliis, infundibuliformibus, 25-30 mm. longis, 15-20 mm. latis, lobis tubarum brevioribus, spathulatis, apiculatis.

A slender erect perennial 2-3 dm. tall from a rootstock or horizontal rhizome; leaves 4-8 cm. long with 13-17 leaflets 3-11 mm. long, 2-4 mm. wide, elliptical, acute, glabrous or ciliate on a slightly winged rachis, the bases of the distal five leaflets commonly confluent; calyx glabrous, narrowly campanulate, 10 mm. long, 4 mm. broad, the segments narrow, acute, equalling the tube; corolla blue, truly funnellform in limb as well as in tube, 25-30 mm. long, 15-20 mm. broad, the lobes two-thirds as long as the tube, spatulate and apiculate; stamens inserted 3 mm. from the base of the corolla-tube, pubescent at, and slightly above, the point of insertion, 20 mm. long; style slightly exceeding the stamens, shorter than the corolla; capsule ovoid, many seeded; seeds not becoming mucilaginous when wet.

Type. Mt. Mohinora (10 miles west of Guadalupe y Calvo), southwest Chihuahua, Mexico, September 1, 1898, *E. W. Nelson 4865* (United States National Herbarium).